divided at each terminal station so that one-half of it passes out into the true cable while the other half enters a false cable (a system of coils and plates) having precisely the same resistance as the true cable. The result is that when New York, for instance, is sending sig-nals those signals are not indicated on the New York receiving instrument, but pass as it were around it, and are indicated on the receiving instrument at the other end of the true cable.

Another contrivance for saving time (minutes are money to a cable company) is the Wheatstone automatic transmitter. This, loosely described, consists of a perforating instrument, by means ich a written message is translated into telegraphic characters (dots and dashes) cut through a strip of pa-per, and another instrument through hich this perforated strip is run in which this perforated strip is run in such a manner that a small me-tallic point closes the circuit every time it drops through a hole, thus making either a dot or a dash, or in other words, sending the message auto-matically. The advantage of this is not, as many suppose, one of greater accuracy, for in this respect nothing that has yet been invented excels the human hand. But the automatic transmitter saves the time of the cable, and that is the all-important consideration. It not only sends the message more rapidly, but it also saves the time consumed in studying out written mes-ages, while the operator is holding the cable kile. All this deciphering is done by the translator who perforates the strip, and his work may be done at any time without keeping the cable in this he lay down and let himself be rsons at once, while, of course, but me person at a time can work at the warning, he charged out and cut H.

the east! Here was a picture to make a had thus been extracted the pig evi-Hindoo's hair stand straight on end. dently lost blood, for he lay down and It was weird enough to have a human let himself be slain peacefully. After thought snapped up and whisked this surly fellow's death the elephants across 3,000 miles of sea, over craggy were taken to the smaller grass across mountains, through yawning chasms, along beetling precipices, all dark and deep beneath the restless, rolling ocean. But it was something suggestive of a league with the old boy himself to have that thought interpreted by little sizzling, dancing, winking, blinking flashes of unearthly light. It is done differently now. The receiving strument-the recorder, it is calledis not so creepy. It is a very delicate piece of mechanism which words can hardly describe to the layman. Two monstrous magnets stand perhaps an inch apart, one a positive, the other a negative. Between them hangs a little cake of soft iron in a tiny heliz. As the dots come, the iron core turns to the left, and as the dashes come it swings to the right. The movement is hardly perceptible. To this core is attached, by an ingeniously simple mul-



tiplying device, a minute siphon pen which drinks ink from a small basin and tape an ever-moving strip of paper so rapidly as to make its little dots seem to be continuous line. This line is drawn straight along the strips of paper when no message is coming, but when a dot is sent across the ocean the pen swings upward, and when a dash is made it swings downward. By these ups and downs the practiced receiving operator reads the message. An upletter A: a downward and three upward strokes form B, and so on. The Continental telegraphic alphabet is used.

Suppose an Atlantic cable should break! Would they have to go out and search along the line of it until they found the fracture? Bless you, no; that would be more of a job than the laying of a new cable. They know a trick worth two of that. They could sit comfortably in either of their terminal es and locate the break in ten minutes. If the cable were severed so that the copper core were exposed a connection would instantly be formed with the earth at the bottom of the sea, and the operator at either terminus would have only to measure the resistance of his circuit to know precisely how much cable lay between him and the ground connection. If the break were of such a character that the core remained insulated, the operator would find his circuit broken. Now, to make the matter plain, let us suppose the cable to be a tube capable of holding a pint of water to the foot. If he poured five hundred pints of water into it and it were filled, he would know that the obstruction was five hundred feet from his end of the tabe. Well, the cable is a conductor capable of noiding, let us say, a pint of electricity to the mile. What is the difference whether we call it pints of electricity or volts or ohms of resistance? It is the same principle

WILLIS B. HAWKINS. A CHINAMAN'S AMBITION. Bis Pride at Mastering the English Pro-

An "Anglo-Indian Globe Trotter" was in Canton, and for assistance in sightm Carrion, and for assistance in signsseeing engaged the services of a young
Chinese, Ah Choy by name. The boy
had picked up a little Engitsh and was
proud of his acquirement. In fact, he
had, what seems to be rare with Celestials, a strong desire to become a master
of the English tongue. He had taken
the traveler to the South Pearl half, where the shrine of the "Queen of Heaven" is ornamented with handsome gilded carvings in wood.

The Englishman admired the works

What are the vessels on the alta?

"All berrass," answered Ah Choy. Ah Choy was very proud of his ability to pronounce the letter r, a great trouble to people of his race, and was given to reciling it with unconcealed self-gratulation. The Englishman was willing to humor him, and so seked: What was that you said!"

"Yes, all hyrrass." "Yes, all billass," chimed in an unarned bystander and Ah Choy's satisfaction was doubled.

Presently, however, his pride had a

with," and fils patron felt obliged to wich," and his patron felt chilged to correct him. Ah Choy was creatfallen, and when the Englishman proposed moving on he forgot his r's in his con-fusion and answered: "Veily well." "I wonder," he remarked, a little

later, "if I went to England and studied for three years I could speak English "Oh, yes," said his mentor; "knowing so much already, you might do it in half that time."

Then the true object of Ah Chor's ambition was disclosed.

"Yes." he said, with a brightening face, "and then I could write an Eng-

Who says that Chinese and Americans

have not some things in common?

A PIG-STICKING ADVENTURE.

Sportsmen. correspondent of the Calcutta Englishman, writing from Mozufferpur, Tirhut, gives a description of a day's pig-sticking. The fourth boar proved a igh customer. This animal, says the writer, was a typical wild boar, sulky and savage to a degree, breaking back-ward and backward again whenever the elephants reached him, charging with real victous intent whenever anyone neared him and when forced out of cover using his pace to get back again. He totally refused to go away clear, so it was determined to kill him in the grass. Mr. D- promptly got a spear into him, which did not improve his vicious disposition, and he charged in savagely, only to be struck again. Upon eness, or it may be done by many prodded twice, making us believe that rooms at once, while, of course, but he was dead. But suddenly, without one person at a time can work at the ordinasy transmitting key.

Years ago, when the cable was a new thing and in itself a suggestion of uncanniness, messages were received by a man who sat in a darkened room and read the meaning of little lightning fashes that flittered here and there.

Talk about your fearsome mysteries of the mahout's head. When the spear the make a little was a neture to make a were taken to the smaller grass across the "bandh." * * Seven fighting boars, averaging collectively over thirty inches each, and four horses out was good enough for one morning, and it was a batch of satisfied sportsmen who

DEATH ON GRASSHOPPERS.

sat down to Mrs H.'s ample lunch at the

A Small Western Lizard That Makes Food of the Insects.

Guarama bungalow.

There is a small reptile out west, says the Washington Star, known as the fence lizard, which catches and eats a great many grasshoppers. The species is very common in the infested regions. Skanks are most active enemies of the insect and have been known to ascend trees for the purpose of catching them. For obvious reasons it will hardly be For obvious reasons it will hardly be practicable to encourage these particular mammals, but no such objections would apply to toods, which are apt to swarm wherever the "hoppers" are, gobbling the latter greedily. Many planters in California employ flocks of turkeys for the purpose of freeing their orchards and vineyards of grasshoppers. One turkey will destroy an almost incredible number in a single day. Incidentally the birds are fattened at the cheapest possible rate. They are so cheapest possible rate. They are so fond of such food that sometimes they devour too many and die of indiges-

Common barnyard fowls are likewise very efficient destroyers of grasshoppers. In one case referred to by a special agent of the department of agriculture an almond orchard containing three hundred and strty acres was attacked by migrating swarms last year. The house and barn were situated in the middle of the orchard, and the chickens browsed around them over an area of six or eight acres, which, by August, looked like a green oasis in the desert, the trees everywhere else hav-ing been stripped of their leaves by the

A REGAL MOTHER-IN-LAW.

Queen Victoria's Treatment of Her Daugh-

ters' Husbands. However shorn Queen Victoria's authority may be as queen, she retains it all as a mother-in-law. As her family is mother-in-law who is also a queen, when she is disposed, as is the queen, to exercise her rights, both natural and inherited, even unto her children's chil-dren of the third and fourth generations. The details of a daughter's marriage bring mother and child into sweet est communion and sympathy, but these in the marriage of Louise, of Wales, the queen took entirely into her own hands and settled altogether to her own satisfaction. Doubtless she prescribed the infant trousseau of Lady Alexander Duff. The English journals do not hesitate to allude to the satisfaction of the duchess of Edinburgh that owing to the royal mourning in England for the duke of Clarence, the wedding of Marie, of Edinburgh, to the crown prince of Roumania, may take place at Coburg, which the Edinburghs regard as their home. The reason plainly assigned is that the duchess will be free to make her own arrangements without the interference of the queen. The same methe, it is alleged, keeps this branch of the royal family out of England so far as etiquette will

That's Different. Mrs. McSwat-Billiger, I am going

sopping. Mr. McSwat (absorbed in his paper)—

All right, Lobelia. (After a lapse of some moments) Billiger, I am going shopping."
(Still deep in his paper) "Yes, Lo

(With some sharpness) "I am going shopping. Billiger."

"I hear you, my dear." Why don't you offer me some money,

(Looking up) "I thought you said you were going shopping?"
"That's what I did say. And on my

way home I expect to stop at an "Why didn't you say so? Here's fifty dollars."-Chicago Tribuna

It Is Terrible

to have a wife or husband with a bad breath. All this may be avoided by name successful on. It is most agreeable to the taste, fragrant and healthfall, for no pronounced the word "vil- and prevents the affliction of unpleashara" as if it had been spelled "wool- ant breath.

Multitudinous Test monials

Recommend Golden Specific as the Positive, Permanent, Economical and Harmless Cure for Drunkenness.

All advertised cures for the liquor nabit do not cure. There are institutions for the cure of drunkenness, where men seeking to rid themselves of a habit may spend all that they have for "that which is not bread," and stand a good chance to return and stand a good chance to return home physical and mental wrecks. Some have found the costly, deally sanitarium the shortest cut to the asy-lum. To be pronounced cured is one thing, but to be cured is quite another thing. It's a poor remedy whose cure is worse than the disease. Go denispe-cific as a cure for drunkenness is recommendee to thoughtful people for those reasons: It is a positively per-manent cure and it is guaranteed. Not one known case of failure out of thousands of cases treated in every land and clime under the sun. On the diagnosis of drunkenness being a disease nosis of drankenness being a disease this remedy works like a charm, ar-resting the disease within a short space of time, whether in its incipient or ad-vanced stage. Shattered nerves are rebuilt and restored to their normal condition. From the first dose a dis-like for liquor is created, which, as the treatment advances, amounts to an utter dislike for it. It's a cure whose in-gredients have beed known for years to the medical fraternity as being positively harmless. It is one of the greatest nerve rest iers in the world.

It being a home treatment and mexpensive further recommend it. Sur-rounded by friends and relatives at home, the patient knowingly or un-knowingly may find healing and health through his ten, coffee or food. In this way many wives, mothers and sisters have been instrumental in bringing about marvelous cures. It is strangely true that the majority of drinking men are averse to being healed of their in-firmity. A \$3 box of Golden Specific by mail may bring joy to your heart and home. One box is often quite suf-ficient. On application to Golden Spe-cific company, Cincinnati, O., a 48-page pamphlet on "Drunkenness Curable," full of valuable testimonials and information, will be sent free.

Mothers and Daughters.

Over twelve years I was afflicted with a very serious female difficulty and for the last sixteen months was under treatment of three of the very best physicians that money could employ. Under their skillful treatment I grad-Under their skillful treatment I gradually grew worse, until they decided they could render me no permanent help. One of my friends persuaded me to try a bottle of Dullam's Great German Uterine Tonic, and after taking three bottles, I can say I am in better health than I have been for twenty years, and am now 60 years old, but feel as young as at 30.

June 2, 1890.

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Lapeer, Mich.

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store, No. 73 Monroe street.

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Now 1ry This.

It will cost you nothing and will surely do you good, if you have a Cough, Cold, or any trouble with Throat, Chess or Lungs. Dr. King's New Discoveries for Consumption, Coughs and Colds is guaranteed to give relief, or money will be paid back. Sufferers from La Grippe found it just the thing and under its use had a speedy and perfect recovery. Try a sample bottle at our expense and learn for yourself just how good a thing it is. Trial bottles 10c at Peck Bros. drug store. Large size 50c and \$1.00.

S. H. Clifford, New Cassel, Wis., was troubled with Neuralgia and Rheuma tism, his Stomach was disordered, his Liver was affected to an alarming degree, appetite fell away, and he was terribly reduced in flesh and strength. Three bottles of Electric Bitters cured

Edward Shepard, Harrisburg, Ill. had a running sore on his leg of eight years' standing. Used three bottles of Electric Bitters and seven boxes of Bucklen's Arnica Salve, and his leg is sound and well. John Speaker, Cataw-ba, O., had five large Fever sores on his leg, doctors said he was incurable. One bottle Electric Bitters and one box large, her opportunities are great. To the New York Evening Sun there is something formidable in the idea of a tirely. Sold by Peck Bros., drug store tirely. Sold by Peck Bros., drug store

Suckien's Arnica Saive. The best salve in the world for cuts, The best salve in the world for cuts, bruises, sores, ulcers, sait rheum, fever sores, tetter, chapped hands, chilblains, corns and all skin eruptions, and positively cures piles, or no pay required. It is guaranteed to give perfect satisfaction or money refunded. Price 25 cents per box. For sale by Peck Bros., druggists, ocrner Monroe and Division-sts.

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Fatal neglect is little short of sniende The consequences of a neglected cough are too well known to need repeating. Dr. Wood's Norway Pine Syrup cures a cough promptly. Sold by all dealer-on a guarantee of satisfaction.

For earache, toothache, sore throat swelled neck, and the results of coldand inflammation, use Dr. Thomas Edectric Oil-the great pain destroyer In Holland, Mich., Doesbury, pub

liches the News, and in its columns strongly recommends Dr. Thomas' Ec-lectic Oil for coughs, colds, sore throat, catarrh and asthma. If out of order, use Beecham's Pills.

Buy Dullam's Great German 15 cent Liver Pills, forty in each package, at

The greatest worm destroyer on earth is Dullam's Great German Worm Lozenges, only 25 cents per box. For sale at D. C. Scribner's drug store.

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Cough Cure at D. C. Scribner's, Peckham's Croup Remedy cures Thooping cough.

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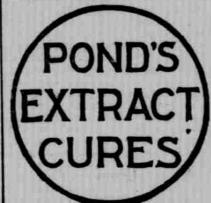
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Subscribed and sworn to before me this eleventh (11) day of July, A. D., 1892. HERMAN N. DOSKER, Notary Public in and for Kent County, Mich-

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